

Product datasheet for **RG234339**

CYP4F3 (NM_001199208) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP4F3 (NM_001199208) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP4F3
Synonyms:	CPF3; CYP4F; CYP4F3; LTB4H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234339 representing NM_001199208
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCCACAGCTGAGCCTGTCCTCGCTGGGCCTTTGGCCAATGGCAGCATCCCCGTGGCTGCTCCTGCTGC
 TGGTTGGGGCCTCCTGGCTCCTGGCCGCATCCTGGCCTGGACCTATACCTTCTATGACAACTGCTGCCG
 CCTCCGGTGTTTCCCGCAACCCCGAAACGGAATTGGTTCTTGGGTACCTGGGCCTGGTCAACCCACG
 GAGCAGGGCATGAGGGTCTGACTCAGCTGGTGGCCACCTACCCAGGGCTTTAAGGTCTGGATGGGCC
 CCATCTTCCCGTCATCCGTTTTTGCACCCCAACATCATCCGGTCTGTCATCAACGCCTCAGTGCCAT
 TGTACCAAGGACAAGGTCTTCTACAGTTCCTGAAGCCCTGGCTGGGGATGGGCTCCTGCTGAGTGCT
 GGTGAAAAGTGGAGCCGCCACCGTCGGATGCTGACGCCTGCCTTCCATTTCAACATCCTGAAGCCCTATA
 TGAAGATTTTCAATGAGAGTGTGAACATCATGCATGCCAAGTGGCAGCTCCTGGCCTCAGAGGGTAGTGC
 CCGTCTGGACATGTTTGAGCACATCAGCCTCATGACCTTGGACAGTCTGCAGAAATGTGTCTTCAGCTTT
 GACAGCCATTGCCAGGAGAAGCCAGTGAATATATTGCCGCCATCTTGGAGCTCAGTGCCCTTGTGACAA
 AAAGACACCAGCAGATCCTCCTGTACATAGACTTCTGTATTATCTACCCCTGATGGGCAGCGTTCCG
 CAGGGCCTGCCGCTGGTGCACGACTTCACAGATGCCGTATCCAGGAGCGGCCGACCCCTCCCTAGC
 CAGGGTGTGTGACTTCTCAAGCCAAGGCCAAATCCAAGACTTTGGACTTCATTGATGTACTCCTGC
 TGAGCAAGGATGAAGATGGGAAGAAGTTGTCCGATGAGGACATAAGAGCAGAAGCTGACACCTTTATGTT
 TGAGGGCCATGACACCACAGCAGTGGTCTCTCCTGGTCTGTACCACCTTGAAGACACCCGGAATAC
 CAGGAGCGCTGTCGGCAGGAGGTGCAAGAGCTTCTGAAGGACCGTGAGCCTAAAGAGATTGAATGGGACG
 ACCTGGCCAGCTGCCCTTCTGACCATGTGCATTAAGGAGAGCCTGAGGCTGCATCCCCAGTCCCTGC
 CGTCTCTCGCTGCTGCACCCAAGACATTGTGCTCCAGACGGCCGGTCAATCCCAAGGCATTATCTGC
 CTCATCAGTGTTTTGGAACCATCACACCCAGCCGTGTGGCCGACCTGAGGTCTATGACCCCTTTC
 GCTTTGACCCAAAGAACATCAAGGAGAGGTACCTCTGGCTTTTATTCCCTTCTCAGCAGGGCCAGGAA
 CTGCATCGGGCAGGCGTTCGCGATGGCGGAGATGAAGGTGGTCTGGGGCTCACGCTGCTGCGCTCCGC
 GTCCTGCCTGACCACCCGAGCCCCGAGGAAGCCGGAGCTGGTCTGCGCGCAGAGGGCGGACTTTGGC
 TCGGGTGGAGCCCTGAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

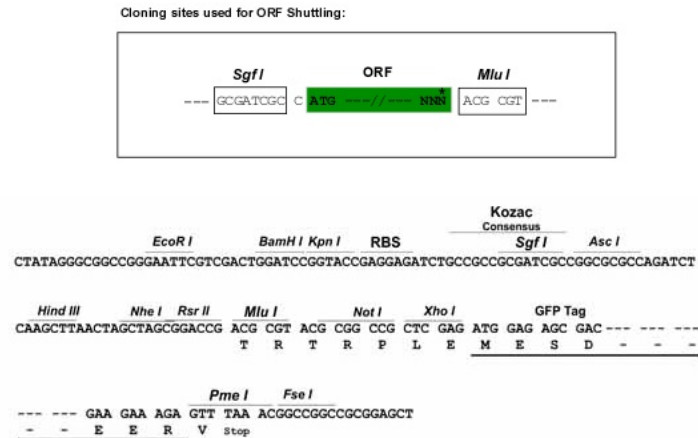
>RG234339 representing NM_001199208
 Red=Cloning site Green=Tags(s)

MPQLSLSSLGLWPMAASPWLLLLLVGASWLLARILAWTYTFYDNCCRLRCFPQPPKRNWFLGHLGLVTPT
 EQGMRVLTQLVATYPQGFKVMGPIFPVIRFCHPNIIRSVINASAAIVPKDKVFYSFLKPWLGDGLLLSA
 GEKWSRHRMLTPAFHFNLKPYMKIFNESVNIMHAKWQLLASEGSARLDMFEHISLMTLDSLQKCVFSF
 DSHCQEKPSEYIAAILELSALVTKRHQQILLYIDFLYYLTPDQGRFRACRLVHDFDVAIQERRRTLPS
 QGVDDFLQAKAKSKTLDLIDVLLLSKDEDGKKLSDEDIRAEADTFMEGHDTTASGLSWVLYHLAKHPEY
 QERCRQEVQELLKDREPKEIEWDDLAQLPFLTMCIKESLRLHPPVPAVSRCTQDIVLPDGRVIPKGIIC
 LISVFGTHHNPVWPDPVEYDPFRFDPKNIKERSPLAFIPFSAGPRNCIGQAFAMAEMKVVLGLTLLRFR
 VLPDHTEPRRKPELVLAEGGLWLRVEPLS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001199208

ORF Size: 1560 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001199208.2](#)

RefSeq Size: 2988 bp

RefSeq ORF: 1563 bp

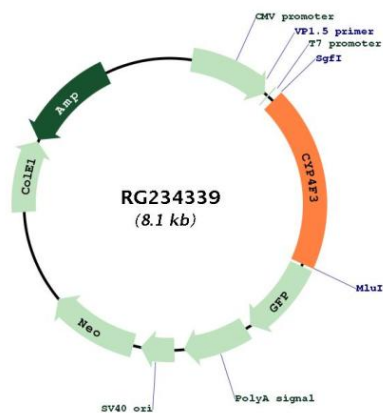
Locus ID: 4051

UniProt ID: [Q08477](#)

Cytogenetics: 19p13.12

Protein Families:	Druggable Genome, P450, Transmembrane
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways
Gene Summary:	This gene, CYP4F3, encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum. The enzyme starts the process of inactivating and degrading leukotriene B4, a potent mediator of inflammation. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Another member of this family, CYP4F8, is approximately 18 kb away. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Apr 2019]

Product images:



Circular map for RG234339